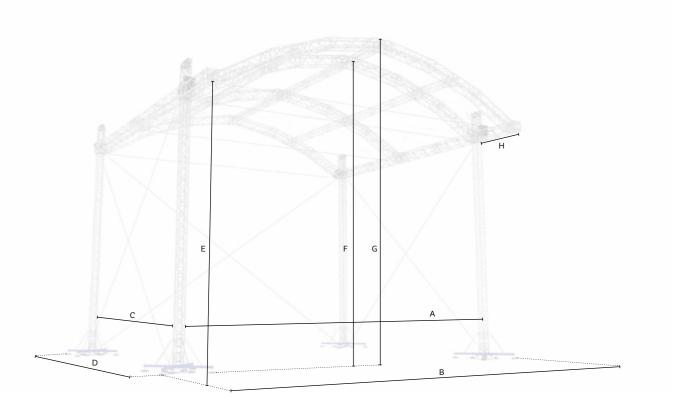
# **MR4** arched roofs

- MR4 Mega-Arc Roof structure for temporary events
- MT2 self-climbing towers up to 12.5 m high (41.01 ft) with M400 / M520 main grid
- Keystone 'arch' created using standard straight sections & angled hinge parts
- Supplied complete with internal wind bracing wires & connection accessories
- Fast connection for quick, simple and secure assembly
- Full structural calculation report & build manual available
- PVC roof colour and side wall options
- Integrated tower base / stage components available
- PA wing options available on request



#### **Technical specifications**

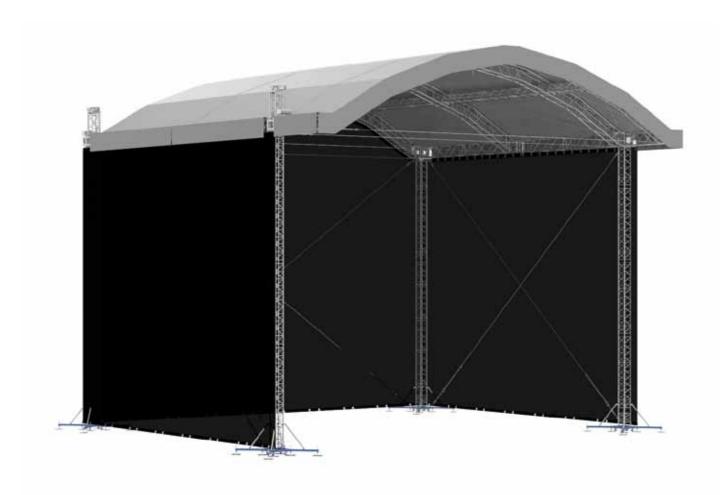
		Stage size >	20x12 m	(65.62x39.37 ft)	16x12 m	(52.50x39.37 ft)
Dimensions	А	Internal width	20.50 m	(67.26 ft)	16.50 m	(54.13 ft)
	В	Overall external width	23.12 m	(75.85 ft)	19.12 m	(62.73 ft)
	С	Internal depth	13.03 m	(42.75 ft)	13.03 m	(42.75 ft)
	D	Overall external depth	15.65 m	(51.35 ft)	15.65 m	(51.35 ft)
	E	Side clearance	11.53 m	(37.83 ft)	11.53 m	(37.83 ft)
	F	Middle clearance	14.30 m	(46.92 ft)	14.30 m	(46.92 ft)
	G	Overall height	14.90 m	(48.88 ft)	14.90 m	48.88 ft)
	Н	Cantilever depth	2.70 m	(8.86 ft)	2.70 m	(8.86 ft)

#### **Loading capacity**

		Stage size >	20x12 m	(65.62x39.37 ft)	16x12 m	(52.50x39.37 ft)	
	Main grid	Uniformly distributed (UDL)	5456 kg	(12018 lbs)	4365 kg	(9615 lbs)	
oading capacity		or 8x Point loads of 800kg	8000 kg	(17621 lbs)	6400 kg	(14097 lbs)	
	PA wing	Central Point load (CPL)	1500 kg	(3304 lbs)	1500 kg	(3304 lbs)	
	* See structural report for exact load positioning						

**154** MR4





## **Operational Specifications**

5	DIN EN 13814 (2005)	Fairground and amusement park machinery and structures				
Design standards	DIN 1055-4	Actions on structures / wind				
	DIN 4113	Design of aluminium structures				
	DIN 18800	Design of steel structures				
	• All of our structures are produced under EN 1090 EXC2 as standard and include the necessary guy wires, instruction manual and engineering report					
Wind management	In service	20.8m/s - 74km/h - 46mph (Max. gust wind speed)				
	* Calculations based on 30% minimum permeable side canopies					
	* Side canopies to be removed above this windspeed if not considered					
	Out of service	28.3m/s - 100km/h - 62mph (Max. gust wind speed)				
	Training recommended					
	This can vary per tower from 4750kg / 10462bs up to 12634kg / 27828lbs and depends on:					
Ballast	If tower bases are interconnected or free standing					
	Layout of canopies					
	Self-weight of load or interconnected stage is considered (Might be deducted from ballast under certain conditions)					
	Friction material used between screw jacks, padding and sub soil					
Canopy & sidewalls	B1 fire retardant canopy on request, in keders					
	Silvergrey; other colors or inside black on request					
	B1 fire retardant side nets in compliance with latest Eurocodes					
Customized	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) upon request					
costomistics and the configuration and the configuration and the configuration and the cost and						

### Transportation data

	Stage size >	20x12 m	(65.62x39.37 ft)	16x12 m	(52.50x39.37 ft)	
Self-weight	* Exact self-weight depends on configuration	4680 kg	(10308 lbs)	3200 kg	(7048 lbs)	
Transport volume	* Packed in carton boxes and bubble foil	80 m³	(2825 ft <sup>3</sup> )	70 m³	(2472 ft <sup>3</sup> )	

Roofs 155